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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/894,524	06/27/2001	Martin Bolick	074451.P134	5999
7590 07/12/2007 Michael J. Mallie BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP Seventh Floor 12400 Wilshire Boulevard Los Angeles, CA 90025-1026			EXAMINER	
			TRUONG, LAN DAI T	
			ART UNIT	PAPER NUMBER
			2152	
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			07/12/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

·						
	Application No.	Applicant(s)				
Office Assistant Commence	09/894,524	BOLIEK ET AL.				
Office Action Summary	Examiner	Art Unit				
	Lan-Dai Thi Truong	2152				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet w	ith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA: - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period was preply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNION B6(a). In no event, however, may a rivill apply and will expire SIX (6) MON cause the application to become Af	CATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 30 Ap	oril 2007.					
2a)⊠ This action is FINAL . 2b)☐ This	This action is FINAL . 2b) This action is non-final.					
·	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.E	D. 11, 453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1 and 3-28</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) <u>1, 3-28</u> is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.	•				
Application Papers						
9) The specification is objected to by the Examine	г.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached	d Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau	, , , , , , , , , , , , , , , , , , , ,					
* See the attached detailed Office action for a list	of the certified copies not	received.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	Summary (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application						
Paper No(s)/Mail Date <u>04/30/07</u> . 6) Other:						

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DETAILED ACTION

1. This action is response to communications: application, filed 06/27/2001; amendment filed 04/30/2007. Claims 1, 3-28 are pending; claims 2, 29-38 are canceled; claims 1, 3, 14, 22 are amended

2. Applicant's arguments filed 02/17/2006 have been fully considered; but the new scope of amended claims are moot in view with new ground for rejections

Claim rejections-35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 3-28 are rejected under 35 U.S.C 103(a) as being un-patentable over Deshpande et al. (U.S. 2002/0087728) in view of Larsson et al. (U.S. 2003/0110299) and further in view of Hintzman et al. (U.S. 5,818,364)

Regarding claim 1:

Deshpande discloses the invention substantially as claimed, including a client, comprising:

A memory having an application and a data structure stored therein, wherein the data structure identifies positions of the compressed codestream on a server and identifies data of the compressed codestream already buffered at the client, if any: (Deshpande discloses the data structure of application JPEG2000; based on the length of code block contribution information in each header, it can identify the locations/segments of codestream in the memory; since the JPEG2000 codestream is well structured, it is possible to retrieve some portions of the codestream from the memory: figure 1, [0005]-[0008], [0042])

A processor coupled to the memory to execute to application to generate a request for portions of the compressed codestream based on indications of which portions of the codestream are already stored in the memory as indicated by the data structure: (in Deshpande's JPEG2000 environment, client is allow to make intelligent HTTP requests to obtain required portions of image file bit streams (CUs) of the codestream from the servers: [0017]; [0003])

Size of the requested portions is determined based on at least two of resolution, layer, component, and precinct of an image specified by a user of the client: (Deshpande: [0008]-[0009]; [0003]; [0007]-[0008])

Size of the request option is derived from the data structure of the client corresponding to the client specified at least two of resolution, layer, component, and precinct of the image: (in Deshpande's JPEG2000, parameters included in codestream markers used to indicate range of compatible image resolution for communications between the server and the client: [0008]-[0009]; [0003]; [0007]-[0008]; [0028])

Wherein the codestream markers include a TLM marker and PLM marker that provide a byte map to each of the packets, each of packets being distinguishable by tile, component,

resolution, and layer: (in Deshpande's JPEG2000 system; the image data is divided into plurality of coded-blocks wherein each of them includes a marker in the header to provide information of coding style default i.e. decompression levels, progression order, number of layers, code-block size, wavelet filter used, packet partition size: [0006]-[0007]; [0009]; figure 1)

prior to decoding, integrates previously obtained options of the compressed codestream with portions of the compressed codestream received as a result of the request to create a new codestream by putting packets in the order the packets appeared in compressed codestream: (it would have been obvious in the art to know that each partition compressed packet/ portion is indexed for transmitting over the network; the index then used to integrate received transmitting compressed packets/portions back into the previous orders prior decoding process: [0006]-[0007]; [0009]; figure 1)

However, Deshpande does not explicitly disclose the codestream is implemented by the client processor

In analogous art, Larsson discloses a JPEG2000 supports for client-server communications; therefrom, stored image on the server is partitioned into plurality of decodable units, and the client is capable to request any interesting image decodable units those the client decides more important (known as ROI). Then the client requests for the desired decodable units with chronological number indicating the number of bytes acceptable for the client's system. The client also is capable to create/ reassemble a new codestream (known as previous stored image information). Furthermore, the client is able to select the coefficient need for the server to decide what CU's are need for the server, see (abstract; [0005]; [0007]; [0050]-[0059]; figure 1-6)

Updating codestream marker to reflect that the previously obtained portions of the compressed codestream and the portions of the compressed codestream received as result of the request are part of the new codestream: (in Larsson's JPEG2000 system, the client-server interactions refer to the original/previous transcoded image according the decision by the client. the interactions used to TAGS or re-sync marks in the bit stream, see [0103], i.e. the update of codestream markers in the bit stream to reflect the previous transcode image: [0098]-[0105]; figure 4-7)

Thus, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine Larsson's ideas of using client-side to control the scalability of JPEG2000 system into Deshphande's system in order to increase flexibilities/ efficiencies for data compress system, see (Larsson: [0005]-[0006])

However, Deshpande-Larsson does not explicitly disclose method of adjusting values of markers to reassemble the new codestream to be compliant with the JPEG2000 standard, so that an ordinary JPEG2000 decoder can be invoked to decode the new codestream if the portions of the compressed codestream received as a result of the request are not JPEG2000 compliant

In analogous art, Hintzman discloses high bit-rate Huffman decoding system; wherein the marker is detected and adjusted any padding bits to a byte boundary of decoder, see (column 2, lines 27-35)

Thus, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine Hintzman's ideas of adjusting padding bits to byte boundary of decoder into Deshpande-Larsson's system in order to employ well-known standard into

Deshpande-Larsson's system for saving resources purpose, and further for increasing efficiencies for message coding network, see (Hintzman: column 2, lines 53-55)

Regarding claim 3:

In addition to rejection in claim 1, Deshpande-Larsson-Hintzman further discloses a client coupled to the server via a network environment, wherein the client includes a memory having an application and a data structure stored therein, wherein the data structure identifies positions of the compressed codestream on the server and identifies data of the compressed codestream already buffered at the client, if any, and further wherein the client request bytes of the compressed codestream from the server that are not already stored in the memory and generates a new codestream from the bytes of the compressed codestream requested from the server and any portion of the compressed codestream previously stored in the memory necessary to create the image data, the new codestream generated by putting packets in the order the packets appeared in the compressed codestream: (Larsson discloses a JPEG2000 supports for client-server communications; therefrom, stored image on the server is partitioned into plurality of decodable units, and the client is capable to request any interesting image decodable units those the client decides more important (known as ROI). Then the client requests for the desired decodable units with chronological number indicating the number of bytes acceptable for the client's system. The client also is capable to create/reassemble a new codestream (known as previous stored image information). Furthermore, the client is able to select the coefficient need for the server to decide what CU's are need for the server. it would have been obvious in the art to know that each partition compressed packet/ portion is indexed for transmitting over the network; the index then used to integrate received transmitting compressed packets/portions back

into the previous orders prior decoding process, see (abstract; [0005]; [0007]; [0050]-[0059]; [0049]-10054D, figure 1-6)

Regarding claim 14:

In addition to rejection in claim 1, Deshpande-Larsson-Hintzman image characteristics: (in Deshpande's JPEG2000 system; the image data is divided into plurality of coded-blocks wherein each of them includes a marker in the header to provide information of "coding style default i.e. decompression levels, progression order, number of layers, code-block size, wavelet filter used, packet partition size" those share functionality with "image characteristics" as claimed: [0006]-[0007]; [0009]; figure 1)

Regarding claim 22:

This claim is rejected under rationale of claim 1

Regarding claim 4:

In addition to rejection in claim 3, Deshpande-Larsson-Hintzman further discloses wherein the portion of the compressed codestream are selected from a group of packets, tile part, and coded data segments from a codebook (Deshpande, [0006], [0030])

Regarding claim 5:

In addition to rejection in claim 3, Deshpande-Larsson-Hintzman further discloses when executing the application, the client determines image characteristics that a user requests (Larsson, Abstract), selects data of a compressed codestream that corresponds to the image characteristics, determines data of a compressed codestream that corresponds to the image characteristics that is not already buffered at the client, issues requests to the server to obtain the data of a compressed codestream that corresponds to the image characteristics that is not already buffered at the client, integrates data received from the server with any previously buffered data

of the compressed codestream that corresponds to the image characteristics, decodes the data of the compressed codestream that corresponds to the image characteristics, and displays an image corresponding to the decoded compressed codestream. (Larsson, [0002], [0008], [0021], [0062])

Regarding claim 6:

In addition to rejection in claim 3, Deshpande-Larsson-Hintzman further discloses wherein the server serves byte requests: (Larsson, [0032], 1.1-3, [0060])

Regarding claim 7:

In addition to rejection in claim 3, Deshpande-Larsson-Hintzman further discloses wherein the client further comprises a software decoder, and the client creates the compressed codestream for the software decoder by integrating bytes requested with previously obtained bytes: (Larsson, [0021], 1.1-4, [0062], 1.1-13)

Regarding claim 8:

In addition to rejection in claim 3, Deshpande-Larsson-Hintzman further discloses wherein the client determines the location and length of each packet (Larsson, [0062], 1.7-12)

Regarding claim 9:

In addition to rejection in claim 8, Deshpande-Larsson-Hintzman further discloses wherein the client requests a header length of a compressed file from the server that includes one or more file format boxes and a main header of the codestream box from which the client determines the location and length 'of each packet (Larsson, [0042], 1. 1-3, [0052], 1.1-5)

Regarding claims 10-11:

In addition to rejection in claim 9, Deshpande-Larsson-Hintzman further discloses two marker segments indicative of a map to every packet, the two marker segments comprise the TLM nad PLM marker segments (Deshpande, [0007], 1.14-17)

Regarding claim 12:

This claim is rejected under rationale of claim 6

Regarding claim 13:

In addition to rejection in claim 3, Deshpande-Larsson-Hintzman further discloses wherein the compressed codestream comprises a JPEG 2000 codestream (Larsson, [0059], 1.1-12)

Regarding claims 15-18:

Those claims are rejected under rationale of claims 5-9

Regarding claims 19-20:

Those claims are rejected under rationale of claims 10-11

Regarding claim 21:

This claim is rejected under rationale of claim 13

Regarding claims 23-28:

Those claims are rejected under rationale of claims 10-13, 16-18

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

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CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Conclusions

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lan-Dai Thi Truong whose telephone number is 571-272-7959. The examiner can normally be reached on Monday- Friday from 8:30am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bunjob A. Jaroenchonwanit can be reached on 571-272-3913. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

07/05/2007

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